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<u>L5</u>	L3 inhal\$	38	<u>L5</u>
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File: DWPI

Apr 18, 2002

DERWENT-ACC-NO: 2002-372265

DERWENT-WEEK: 200254

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TITLE: Production of homogeneous inhalation powders comprises introducing alternate layers of large excipient particles and small drug particles into a mixing vessel

INVENTOR: BOECK, G; WALZ, M

PATENT-ASSIGNEE:

ASSIGNEE

BOEHRINGER INGELHEIM PHARMA KG

BOECK G

WALZ M

CODE

BOEH

BOECI

WALZI

PRIORITY-DATA: 2001DE-1038022 (August 10, 2001), 2000DE-1050635 (October 12, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 200230390 A2	April 18, 2002	G	018	A61K009/00
US 20020106332 A1	August 8, 2002		000	A61K009/14
AU 200218220 A	April 22, 2002		000	A61K009/00

DESIGNATED-STATES: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
WO 200230390A2	October 9, 2001	2001WO-EP11636	
US20020106332A1	November 22, 2000	2000US-252683P	Provisional
US20020106332A1	October 11, 2001	2001US-0977911	
AU 200218220A	October 9, 2001	2002AU-0018220	
AU 200218220A		WO 200230390	Based on

INT-CL (IPC): A61 K 9/00; A61 K 9/14

RELATED-ACC-NO: 2002-362657

ABSTRACTED-PUB-NO: US20020106332A

BASIC-ABSTRACT:

NOVELTY - Production of inhalation powders comprises introducing equal portions of large excipient particles and equal portions of small drug particles into a mixing vessel in the form of alternate layers, starting with a layer of excipient particles,

and then mixing the two components.

DETAILED DESCRIPTION - Production of inhalation powders comprises introducing n+m equal portions of large excipient particles and n equal portions of small drug particles into a mixing vessel in the form of alternate layers, starting with a layer of excipient particles, and then mixing the two components, where n = 1 or more and m = 0 or 1.

USE - The inhalation powders (claimed) are especially useful for administering beta mimetics (especially formoterol fumarate), anticholinergic agents (especially tiotropium bromide, corticosteroids (especially budesonide and fluticasone) and dopamine agonists (especially pramipexol).

ADVANTAGE - The process produces highly homogeneous powder mixtures.
ABSTRACTED-PUB-NO:

WO 200230390A

EQUIVALENT-ABSTRACTS:

NOVELTY - Production of inhalation powders comprises introducing equal portions of large excipient particles and equal portions of small drug particles into a mixing vessel in the form of alternate layers, starting with a layer of excipient particles, and then mixing the two components.

DETAILED DESCRIPTION - Production of inhalation powders comprises introducing n+m equal portions of large excipient particles and n equal portions of small drug particles into a mixing vessel in the form of alternate layers, starting with a layer of excipient particles, and then mixing the two components, where n = 1 or more and m = 0 or 1.

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ADVANTAGE - The process produces highly homogeneous powder mixtures.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: PRODUCE HOMOGENEOUS INHALE POWDER COMPRISE INTRODUCING ALTERNATE LAYER EXCIPIENT PARTICLE DRUG PARTICLE MIX VESSEL

DERWENT-CLASS: B07

CPI-CODES: B01-B03; B06-E05; B06-F01; B07-A02B; B10-B03B; B12-M11G; B14-J02B1; B14-J02C2;

CHEMICAL-CODES:

Chemical Indexing M2 *01*

Fragmentation Code

F012 F013 F014 F015 F016 F123 H4 H405 H423 H484
H5 H521 H8 J4 J471 K0 L8 L814 L815 L822
L831 M280 M311 M315 M321 M332 M342 M344 M349 M373
M381 M391 M413 M431 M510 M521 M530 M540 M782 M904
M905 M910 R036

Specific Compounds

00241K 00241M

Registry Numbers

0241U

Chemical Indexing M2 *02*

Fragmentation Code

G013 G015 G100 H102 H181 H402 H441 H481 H541 H721

J0 J011 J012 J172 J341 M210 M211 M272 M280 M281
M312 M313 M321 M331 M332 M342 M343 M373 M382 M391
M392 M414 M431 M510 M520 M532 M540 M650 M782 M904
M905 R036
Specific Compounds
A19QLK A19QLM

Chemical Indexing M2 *03*

Fragmentation Code
C035 C100 C720 C800 C801 C803 C804 C805 C806 C807
D011 D013 D016 D030 E500 F012 F019 F211 F299 H1
H181 H4 H401 H481 H8 J0 J011 J2 J221 K0
L7 L721 M1 M126 M132 M210 M211 M273 M282 M311
M321 M344 M349 M371 M391 M411 M431 M511 M522 M530
M540 M640 M782 M904 M905 P515 R036
Ring Index
70264
Specific Compounds
A1HESK A1HEST A1HESM

Chemical Indexing M2 *04*

Fragmentation Code
D012 D022 E600 H1 H100 H102 H121 H161 L922 M210
M213 M231 M273 M281 M320 M412 M431 M511 M520 M530
M540 M782 M904 M905 R036
Specific Compounds
A0GX0K A0GX0M

Chemical Indexing M5 *05*

Fragmentation Code
M431 M782 M904 M905 R036
Ring Index
05595
Specific Compounds
06391K 06391M

Chemical Indexing M5 *06*

Fragmentation Code
M431 M782 M904 M905 R036
Specific Compounds
21762K 21762M

Chemical Indexing M6 *07*

Fragmentation Code
M905 R036 R534

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0241U

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2002-105409